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PRIVY COUNCIL

MEDICAL RESEARCH COUNCIL

MEMORANDUM

No. 21

**List of Species maintained in the
National Collection of
Type Cultures**

LONDON: HIS MAJESTY'S STATIONERY OFFICE

1948

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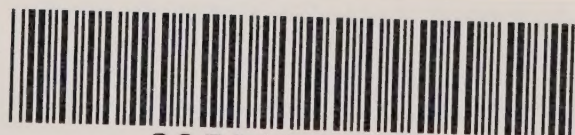
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**LIST OF SPECIES
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LIST OF SPECIES MAINTAINED IN THE NATIONAL COLLECTION OF TYPE CULTURES

THIS *List of Species* is not intended to be a substitute for the *Catalogue of the National Collection of Type Cultures*, which was last revised in 1936 (Special Report Series No. 214) and is now out of print. A new edition of the *Catalogue* will take several years to prepare, and meanwhile bacteriologists may wish to know what species are available at the National Collection and how many strains of each species are maintained. The *List* gives this information as corrected to the beginning of June, 1948.

In general, nomenclature in the *List* follows that of the 3rd edition of Topley and Wilson's *Principles of Bacteriology and Immunity*; the *List* was sent to press before the 6th edition of Bergey's *Manual of Determinative Bacteriology* was available in this country. The genus *Bacterium* has been divided into a number of convenient groups and the species in these are printed in italic; gram-negative bacilli of uncertain taxonomic position have been listed under the heading "BACTERIUM", but their names are distinguished by the use of roman type. It should be emphasized that the names used in the *List* are, with few exceptions, those given to the organisms by the depositors and no guarantee is given that they have been correctly named. At a later date a small collection of carefully checked strains of the species that are commonly used in teaching will be picked out from the general collection or added to it; such strains will be indicated on the packing note sent out with each parcel of cultures.

The Collection inevitably suffered during the war years; many strains became contaminated and, in some instances, replaced by other species. Recipients of specimens are accordingly advised to plate out all cultures; it would be appreciated if information concerning any atypical characteristics contamination or replacement could be sent to the Curator, who will in return try to supply a pure and typical strain. In present circumstances it is not possible to check each individual culture before it is dispatched, and a letter from a recipient may be the first indication of contamination.

Conditions of Supply

Cultures are supplied to bacteriologists in university, research, hospital, and other laboratories, but the right is reserved to refuse to send a pathogen to countries where the organism is not found in nature and to individuals not working in a laboratory directed by a competent bacteriologist.

If the results obtained with cultures from the Collection in any test or trial carried out in the recipient's laboratory or elsewhere are to be used in an advertisement, the name of the National Collection as the source of the cultures is not to be mentioned. This condition of supply does not prevent the use of the Collection's name, and catalogue numbers of strains, in technical papers published in scientific journals where this information would be of help to other scientists.

Cultures are dispatched as soon as satisfactory growth has developed ; but a firm date of delivery cannot be given.

Requests for cultures should be addressed to :

The Curator,
National Collection of Type Cultures,
Lister Institute,
Elstree, Herts.

Whenever possible an official order should accompany requests for cultures ; invoices are made out to the institute or department and not to the individual.

Boxes in which cultures are packed are at present charged, and credit is allowed on their return. Empty boxes should be returned *before* passing on the account for payment ; an amended invoice will then be sent on which payment should be made.

Cheques and Postal Orders should be crossed and made payable to "*The National Collection of Type Cultures*". A remittance should *not* be sent with the order.

ALPHABETICAL LIST OF SPECIES

NOTE: The number opposite each species indicates the number of strains of the species that are maintained in the Collection

ACETOBACTER

<i>Acetobacter aceti</i> . . .	2	<i>Acetobacter oxydans</i>	
<i>Acetobacter acetigenum</i> . . .	1	var. <i>africanum</i> . . .	1
<i>Acetobacter acetosum</i> . . .	2	<i>Acetobacter pasteurianum</i> . . .	1
var. <i>nairobiense</i> . . .	1	<i>Acetobacter peroxydans</i> . . .	1
<i>Acetobacter acidum-polymyxa</i> . . .	1	<i>Acetobacter rancens</i> . . .	1
<i>Acetobacter ascendens</i> . . .	1	<i>Acetobacter suboxydans</i> . . .	5
<i>Acetobacter capsulatum</i> . . .	1	var. <i>musciparum</i> . . .	1
<i>Acetobacter gluconicum</i> . . .	1	<i>Acetobacter transcapsulatum</i> . . .	1
<i>Acetobacter kuetzingianum</i> . . .	1	<i>Acetobacter turbidans</i> . . .	3
<i>Acetobacter melanogenum</i> . . .	1	<i>Acetobacter viscosum</i> . . .	2
<i>Acetobacter mobile</i> . . .	1	<i>Acetobacter xylinum</i> . . .	2
<i>Acetobacter orleanse</i> . . .	1	<i>Acetobacter</i> spp. . . .	5

ACTINOBACILLUS

<i>Actinobacillus lignieresii</i> . . .	6
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ACTINOMYCES

<i>Actinomyces africanus</i> . . .	1	<i>Actinomyces chromogenes</i> . . .	1
<i>Actinomyces albido-flavus</i> . . .	1	<i>Actinomyces citreus</i> . . .	1
<i>Actinomyces albosporeus</i> . . .	1	<i>Actinomyces coelicolor</i> . . .	2
<i>Actinomyces albus</i> . . .	1	<i>Actinomyces congolensis</i> . . .	12
<i>Actinomyces antibioticus</i> . . .	1	<i>Actinomyces corallinus</i> . . .	1
<i>Actinomyces asteroides</i> . . .	4	<i>Actinomyces dassonvillei</i> . . .	1
<i>Actinomyces beddardii</i> . . .	1	<i>Actinomyces dicksonii</i> . . .	1
<i>Actinomyces blackwellii</i> . . .	1	<i>Actinomyces farcinicus</i> . . .	1
<i>Actinomyces bobili</i> . . .	1	<i>Actinomyces flavus</i> . . .	1
<i>Actinomyces bovis</i> (aerobic)		<i>Actinomyces fradii</i> . . .	1
see <i>Act. graminis</i>		<i>Actinomyces gibsonii</i> Dodge . . .	1
<i>Actinomyces bovis</i> Harz-Erikson	5	<i>Actinomyces gibsonii</i> Erikson . . .	1
<i>Actinomyces bovis</i> Wolff-Israel		<i>Actinomyces graminis</i> . . .	5
see <i>Act. israelii</i>		var. <i>nigerianus</i> . . .	1
<i>Actinomyces buccalis</i> . . .	1	<i>Actinomyces griseus</i> . . .	4
<i>Actinomyces cacaoi</i> . . .	3	<i>Actinomyces griseolus</i> . . .	1
<i>Actinomyces caeruleus</i> . . .	1	<i>Actinomyces halstedii</i> . . .	1
<i>Actinomyces californicus</i> . . .	1	<i>Actinomyces hominis</i> . . .	1
<i>Actinomyces caprae</i> . . .	1	<i>Actinomyces horton</i> . . .	1
<i>Actinomyces carneus</i> . . .	1	<i>Actinomyces israelii</i> . . .	14
<i>Actinomyces caviae</i> . . .	1	<i>Actinomyces keratolyticus</i> . . .	1
<i>Actinomyces cellulosa</i> . . .	1	<i>Actinomyces kimberi</i> . . .	1

<i>Actinomyces lavendulae</i> . . .	2	<i>Actinomyces sampsonii</i> . . .	1
<i>Actinomyces leishmanii</i> . . .	1	<i>Actinomyces sanguinis</i> . . .	1
<i>Actinomyces lipmanii</i> . . .	1	<i>Actinomyces scabies</i> . . .	1
<i>Actinomyces listeri</i> . . .	1	<i>Actinomyces setonii</i> . . .	1
<i>Actinomyces luteus</i> . . .	1	<i>Actinomyces somaliensis</i> . . .	3
<i>Actinomyces madurae</i> . . .	3	<i>Actinomyces sulfureus</i> . . .	1
<i>Actinomyces muris</i> . . .	5	<i>Actinomyces sumatrae</i> . . .	1
<i>Actinomyces panja</i> . . .	1	<i>Actinomyces sylvodorifera</i> . . .	1
<i>Actinomyces pelletieri</i> . . .	2	<i>Actinomyces transvalensis</i> . . .	1
<i>Actinomyces phaeochromogenus</i>	1	<i>Actinomyces tumuli</i> . . .	1
<i>Actinomyces praecox</i> . . .	1	<i>Actinomyces upcottii</i>	
<i>Actinomyces pretorianus</i> . . .	1	see <i>Act. gibsonii</i> Dodge	
<i>Actinomyces rangoon</i> . . .	1	<i>Actinomyces violaceus-ruber</i> . . .	1
<i>Actinomyces reticuli</i> . . .	1	<i>Actinomyces viridis</i> . . .	1
<i>Actinomyces reticulus-ruber</i> . . .	1	<i>Actinomyces virido-chromogenus</i>	1
<i>Actinomyces rhodnii</i> . . .	4	<i>Actinomyces willmorei</i> . . .	1
<i>Actinomyces ruber</i> . . .	1	<i>Actinomyces</i> spp. . . .	37
<i>Actinomyces rutgersensis</i> . . .	1		

AEROBACTER see BACTERIUM

ALCALIGENES see BACTERIUM (non-fermenting group)

AZOTOBACTER

<i>Azotobacter agile</i> . . .	1	<i>Azotobacter vinelandii</i> . . .	3
<i>Azotobacter chroococcum</i> . . .	8	<i>Azotobacter</i> spp. . . .	6

BACILLUS

<i>Bacillus acetoethylicus</i>		<i>Bacillus cereus</i> . . .	22
see <i>B. macerans</i>		var. <i>albolactis</i> . . .	1
<i>Bacillus aerosporus</i> see <i>B. polymyxa</i>		var. <i>fluorescens</i> . . .	1
<i>Bacillus alcalophilus</i> . . .	2	<i>Bacillus circulans</i> . . .	11
<i>Bacillus alvei</i> . . .	4	<i>Bacillus closteroides</i>	
<i>Bacillus anthracis</i> . . .	10	see <i>B. circulans</i>	
<i>Bacillus asterosporus</i>		<i>Bacillus coagulans</i> . . .	4
see <i>B. polymyxa</i>		<i>Bacillus danicus</i> see <i>B. megatherium</i>	
<i>Bacillus aterrimus</i> see <i>B. subtilis</i>		<i>Bacillus distortus</i> see <i>B. carotarum</i>	
var. <i>aterrimus</i>		<i>Bacillus filiformis</i> see <i>B. licheniformis</i>	
<i>Bacillus brevis</i> . . .	9	<i>Bacillus firmus</i> . . .	1
var. Gause-Brazhnikova . . .	1	<i>Bacillus freudenreichii</i> . . .	1
<i>Bacillus butyricus</i> see <i>B. subtilis</i>		<i>Bacillus fusiformis</i> . . .	11
<i>Bacillus carotarum</i> . . .	3	<i>Bacillus geniculatus</i> see <i>B. subtilis</i>	

<i>Bacillus lacticola</i> see <i>B. cereus</i>		<i>Bacillus ovoaethylicus</i>	
<i>Bacillus lactimorbi</i> see <i>B. fusiformis</i>		see <i>B. polymyxa</i>	
<i>Bacillus lactis-niger</i> see <i>B. subtilis</i>		<i>Bacillus panis</i> see <i>B. subtilis</i>	
var. <i>niger</i>		<i>Bacillus pasteurii</i>	2
<i>Bacillus larvae</i>	1	<i>Bacillus petasites</i> see <i>B. megatherium</i>	
<i>Bacillus laterosporus</i>	3	<i>Bacillus polymyxa</i>	6
<i>Bacillus lentus</i>	1	<i>Bacillus prausnitzii</i> see <i>B. mycoides</i>	
<i>Bacillus licheniformis</i>	20	<i>Bacillus pseudotetanicus</i>	
<i>Bacillus loehnisii</i>	1	see <i>B. fusiformis</i>	
<i>Bacillus M</i> of Friedenreich		<i>Bacillus pumilus</i>	5
see <i>Corynebacterium</i> sp.		<i>Bacillus repens</i>	2
<i>Bacillus macerans</i>	5	<i>Bacillus scaber</i> see <i>B. subtilis</i>	
<i>Bacillus megatherium</i>	15	<i>Bacillus serositidis</i> see <i>B. fusiformis</i>	
<i>Bacillus mesentericus</i> see <i>B. pumilus</i>		<i>Bacillus simplex</i> see <i>B. carotarum</i>	
and <i>B. subtilis</i>		<i>Bacillus sphaerius</i> see <i>B. fusiformis</i>	
<i>Bacillus mesentericus</i> var. <i>flavus</i>	1	<i>Bacillus subtilis</i>	35
<i>Bacillus metiens</i> see <i>B. cereus</i>		Ford type see <i>B. licheniformis</i>	
<i>Bacillus minimus</i> see <i>B. subtilis</i>		var. <i>aterrimus</i>	1
<i>Bacillus mycoides</i>	7	var. <i>niger</i>	1
var. <i>ovoaethylicus</i> see <i>B. polymyxa</i>		<i>Bacillus tenuis</i> see <i>B. subtilis</i>	
<i>Bacillus natto</i> see <i>B. subtilis</i>		<i>Bacillus terminalis</i> see <i>B. circulans</i>	
<i>Bacillus niger</i> see <i>B. subtilis</i>		<i>Bacillus truffautii</i> see <i>B. pumilus</i>	
var. <i>niger</i>		<i>Bacillus vulgatus</i> see <i>B. subtilis</i>	
<i>Bacillus orpheus</i> see <i>B. laterosporus</i>			

BACTERIUM

COLI-AEROGENES GROUP

(*Aerobacter*, *Citrobacter*, and *Escherichia*)

<i>Bacterium aerogenes</i>		<i>Bacterium coli-anaerogenes</i>	2
I	3	<i>Bacterium coli-anindolicum</i>	1
II	3	<i>Bacterium formicum</i> see <i>Bact. coli</i>	
untyped	8	<i>Bacterium freundii</i>	1
<i>Bacterium brasiliensis</i> see <i>Bact. coli</i>		<i>Bacterium gruenthali</i>	
<i>Bacterium cloacae</i>	1	see <i>Bact. coli</i>	
<i>Bacterium coli</i>		<i>Bacterium oxytocum-perniciosum</i>	
I	3	see <i>Bact. aerogenes</i>	
II	1	<i>Bacterium pauloensis</i> see <i>Bact. coli</i>	
Intermediate I	2	<i>Bacterium pseudocoscroba</i>	
Intermediate II	2	see <i>Bact. coli</i>	
Irregular	2	<i>Bacterium</i> spp.	
var. <i>acidi-lactici</i>	4	from rotten eggs	11
var. <i>commune</i>	11	organisms with <i>Salmonella</i>	
var. <i>communius</i>	9	antigens—see <i>Salmonella</i>	
var. <i>neapolitanum</i>	4		

ERWINIA GROUP

<i>Bacterium amylovorum</i> . . .	1	var. <i>solanisaprum</i> . . .	1
<i>Bacterium aroideae</i> see		<i>Bacterium lathyri</i> . . .	3
<i>Bact. carotovorum</i> (anaerogenic)		<i>Bacterium rhaponticum</i> . . .	1
<i>Bacterium carotovorum</i> . . .	5	<i>Bacterium rhizogenes</i> . . .	1
anaerogenic strains . . .	2	<i>Bacterium salicis</i> . . .	5
var. <i>melonis</i> . . .	1	<i>Bacterium tracheiphilum</i> . . .	1
var. <i>phytophthorum</i> . . .	5	<i>Bacterium tumefaciens</i> . . .	7

FRIEDLÄNDER GROUP

(Klebsiella)

<i>Bacterium mucosum-capsulatum</i> . . .	1	type B	1
<i>Bacterium ozaenae</i>	4	type C	1
<i>Bacterium pneumoniae</i>		untyped	4
type A	2	<i>Bacterium rhinoscleromatis</i> . . .	5

NON-FERMENTING GROUP

(Alcaligenes)

<i>Bacterium bookeri</i>	2	<i>Bacterium haemolysans</i> . . .	2
<i>Bacterium faecalis-alcaligenes</i> . . .	7	<i>Bacterium lactis-viscosum</i> . . .	1
var. <i>radicans</i>	1	<i>Bacterium radiobacter</i> . . .	1

PARACOLON GROUP

<i>Bacterium</i> (<i>Salmonella</i>) <i>arizona</i> . . .	1	<i>Bacterium coli-mutabile</i> . . .	6
Edwards's Arizona group . . .	60	<i>Bacterium columbense</i> . . .	5
<i>Bacterium asiaticum</i>	5	<i>Bacterium kandiense</i>	
<i>Bacterium asiaticum-mobile</i> . . .	2	var. <i>kandiensoides</i> . . .	1
<i>Bacterium bentotensis</i>		<i>Bacterium metadysenterica-B</i> . . .	1
var. <i>bentotensoides</i>	1	<i>Bacterium paracoli</i>	
<i>Bacterium cadaveris</i>	1	Gilbert & Lyon	1
<i>Bacterium ceylonense-A</i>	3	<i>Bacterium wakefield</i>	3
<i>Bacterium ceylonense-B</i>	4	<i>Bacterium</i> sp.	
<i>Bacterium colifoetidum</i>	2	penicillinase producer . . .	1

GRAM-NEGATIVE BACILLI OF UNCERTAIN TAXONOMIC POSITION

<i>Bacterium acridiorum</i>	3	<i>Bacterium denitrificans</i> . . .	1
<i>Bacterium agglutinabile</i>	1	<i>Bacterium denitrofluorescens-</i>	
<i>Bacterium anolium</i>	1	liquefaciens	1
<i>Bacterium auxinophilum</i>	1	<i>Bacterium enterocoliticum</i> . . .	1
<i>Bacterium cassavae</i>	1	<i>Bacterium fallax</i>	1
<i>Bacterium coli-anaerobium</i> . . .	1	<i>Bacterium globiforme</i>	1
<i>Bacterium costatum</i>	1	<i>Bacterium granulomatis</i> . . .	1
<i>Bacterium cystinovorum</i>	1	<i>Bacterium granulosis</i>	2
<i>Bacterium cytophagum</i>	1	<i>Bacterium hartlebii</i>	1

<i>Bacterium inconstans</i> . . .	1	<i>Bacterium salmonicida</i> . . .	6
<i>Bacterium indoloxidans</i> . . .	1	<i>Bacterium sphingidis</i> . . .	1
<i>Bacterium lacunatum</i> . . .	1	<i>Bacterium synxanthum</i> . . .	1
<i>Bacterium liquefaciens</i> . . .	1	<i>Bacterium thiocyanoxidans</i> . . .	1
<i>Bacterium noctuarum</i> . . .	1	<i>Bacterium ureae</i> . . .	1
<i>Bacterium orleanense</i> . . .	1	<i>Bacterium vini-acetati</i> . . .	1
<i>Bacterium paratyphosum-alvei</i>	1	<i>Bacterium viscosum-equi</i> . . .	2
<i>Bacterium parvulum</i> . . .	1	<i>Bacterium volutans</i> . . .	2
<i>Bacterium purifaciens</i> . . .	2	<i>Bacterium xylinoides</i> . . .	1

“ BACTERIUM ” AS A SYNONYM

<i>Bacterium acetylcholini</i> see <i>Lactobacillus plantarum</i>	<i>Bacterium lipolyticum</i> see <i>Corynebacterium bovis</i>
<i>Bacterium acidi-propionici</i> see <i>Propionibacterium pentosaceum</i>	<i>Bacterium monocytogenes</i> see <i>Erysipelothrix monocytogenes</i>
<i>Bacterium atrosepticum</i> see <i>Bact. carotovorum</i> var. <i>phytophthorum</i>	<i>Bacterium necrophorum</i> see <i>Fusiformis necrophorus</i>
<i>Bacterium bronchisepticum</i> see <i>Haemophilus bronchisepticus</i>	<i>Bacterium nephritidis-equi</i> see <i>Bacterium viscosum-equi</i>
<i>Bacterium canariense</i> see <i>Pasteurella pseudotuberculosis</i>	<i>Bacterium paracoli</i> Jensen see <i>Salmonella dublin</i>
<i>Bacterium flavozonatum</i> see <i>Xanthomonas begoniae</i>	<i>Bacterium pfaffii</i> see <i>Pasteurella pseudotuberculosis</i>
<i>Bacterium gluconicum</i> see <i>Acetobacter gluconicum</i>	<i>Bacterium rossicum</i> see <i>Cellulomonas rossica</i>
<i>Bacterium guentheri</i> see <i>Streptococcus lactis</i>	<i>Bacterium vignae</i> var. <i>leguminophilum</i> see <i>Pseudomonas syringae</i>
<i>Bacterium johnei</i> see <i>Mycobacterium enteritidis</i>	<i>Bacterium X</i> of Pritchett and Stillman see <i>Haemophilus</i> <i>haemolyticus</i>

BRUCELLA

<i>Brucella abortus</i> . . .	24	<i>Brucella tularensis</i> . . .	1
<i>Brucella melitensis</i> . . .	14	<i>Brucella</i> spp.	
<i>Brucella paramelitensis</i> . . .	4	aberrant strains . . .	4
<i>Brucella suis</i> . . .	5	unidentified . . .	1

CELLULOMONAS

<i>Cellulomonas rossica</i> . . .	1
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CHROMOBACTERIUM

<i>Chromobacterium amethystinum</i>	1	<i>Chromobacterium esseyanum</i> . . .	1
<i>Chromobacterium chocolatum</i> . . .	1	<i>Chromobacterium indicum-rubrum</i>	2

<i>Chromobacterium kiliense</i> .	1	<i>Chromobacterium violaceum</i> .	1
<i>Chromobacterium orangium</i> .	1	<i>Chromobacterium viscosum</i> .	2
<i>Chromobacterium prodigiosum</i> .	7	<i>Chromobacterium</i> spp. .	3

CITROBACTER see BACTERIUM

CLOSTRIDIUM

<i>Clostridium acetobutylicum</i>		<i>Clostridium oedematis-sporogenes</i>	
see <i>Cl. acetonigenum</i>		see <i>Cl. bifermentans</i>	
<i>Clostridium acetonigenum</i> .	9	<i>Clostridium ovitoxicum</i>	
<i>Clostridium aerofoetidum</i> .	1	see <i>Cl. welchii</i> type D	
<i>Clostridium beijerinckii</i> .	1	<i>Clostridium paludis</i>	
<i>Clostridium bifermentans</i> .	14	see <i>Cl. welchii</i> type C	
<i>Clostridium botulinum</i>		<i>Clostridium parabotulinum</i> .	1
type A	13	<i>Clostridium parasporogenes</i> .	1
type B	13	<i>Clostridium pasteurianum</i> .	2
type C	6	<i>Clostridium pectinovorum</i>	
type D	2	see <i>Cl. acetonigenum</i>	
type E	1	<i>Clostridium perfringens</i>	
untyped	1	see <i>Cl. welchii</i> type A	
<i>Clostridium butylicum</i>		<i>Clostridium putrificum</i> .	3
see <i>Cl. acetonigenum</i>		<i>Clostridium saprotoxicum</i> .	1
<i>Clostridium butyricum</i> . . .	2	<i>Clostridium septicum</i> .	16
<i>Clostridium butyricum-iodophilum</i>	2	<i>Clostridium sordellii</i>	
<i>Clostridium centrosporogenes</i>		see <i>Cl. bifermentans</i>	
see <i>Cl. bifermentans</i>		<i>Clostridium sphenoides</i> . .	1
<i>Clostridium chauvoei</i> . . .	19	<i>Clostridium sporogenes</i> . .	8
<i>Clostridium cochlearium</i> . .	1	<i>Clostridium tertium</i> . . .	5
<i>Clostridium fallax</i>	3	<i>Clostridium tetani</i>	
<i>Clostridium felsineum</i> . . .	1	type I	4
<i>Clostridium gigas</i>		type II	3
see <i>Cl. oedematiens</i> type B		type III	4
<i>Clostridium haemolyticum</i> .	3	type IV	1
<i>Clostridium histolyticum</i> . .	4	type V	5
<i>Clostridium methanigenes</i> . .	1	Ten Broeck's types . . .	6
<i>Clostridium multif fermentans</i> .	2	untyped	4
<i>Clostridium novyi</i>		<i>Clostridium tetanomorphum</i> .	4
see <i>Cl. oedematiens</i> type A		<i>Clostridium welchii</i>	
<i>Clostridium oedematiens</i>		type A	4
type A	9	type B (lamb-dysentery bacillus)	3
type B	9	type C (<i>Cl. paludis</i>) . . .	11
type C	1	type D (<i>Cl. ovitoxicum</i>) .	3
untyped	2	untyped	16
<i>Clostridium oedematis-maligni</i>		<i>Clostridium</i> spp.	
see <i>Cl. septicum</i>		from snake venom . . .	2

CORYNEBACTERIUM

<i>Corynebacterium acnes</i> . . .	5	<i>Corynebacterium murium</i> . . .	2
<i>Corynebacterium bovis</i> . . .	1	<i>Corynebacterium ovis</i>	
<i>Corynebacterium coryzae-</i> <i>segmentosum</i> . . .	1	equine strains . . .	9
<i>Corynebacterium diphtheriae</i>		ovine strains . . .	15
var. <i>gravis</i> Robinson & Peeney's types . . .	10	soil strain . . .	1
var. <i>gravis</i> untyped . . .	9	<i>Corynebacterium pseudotuberculosis</i> see <i>C. ovis</i>	
var. <i>intermedius</i> . . .	6	<i>Corynebacterium pseudotuberculosis-</i> <i>murium</i> see <i>C. murium</i>	
var. <i>mitis</i> . . .	7	<i>Corynebacterium pyogenes</i>	
Eagleton & Baxter's types . . .	14	bovine strain . . .	1
unclassified . . .	24	ovine strains . . .	2
<i>Corynebacterium enzymicum</i> . . .	2	porcine strains . . .	4
<i>Corynebacterium equi</i> . . .	5	<i>Corynebacterium rathayi</i> . . .	1
<i>Corynebacterium fascians</i> . . .	1	<i>Corynebacterium renale</i> . . .	1
<i>Corynebacterium flaccumfaciens</i>	1	<i>Corynebacterium sepedonicum</i> . . .	1
<i>Corynebacterium flavidum</i> . . .	1	<i>Corynebacterium simplex</i> . . .	1
<i>Corynebacterium hoagii</i> . . .	1	<i>Corynebacterium tritici</i> . . .	1
<i>Corynebacterium hofmannii</i> . . .	2	<i>Corynebacterium tumescens</i> . . .	1
<i>Corynebacterium insidiosum</i> . . .	1	<i>Corynebacterium xerosis</i> . . .	2
var. <i>saprophyticum</i> . . .	1	<i>Corynebacterium</i> spp.	
<i>Corynebacterium mediolanum</i> . . .	1	diphtheroids (Barratt's types)	20
<i>Corynebacterium michiganense</i>	3	unclassified . . .	28
var. <i>saprophyticum</i> . . .	1		

DIPLOCOCCUS

<i>Diplococcus mucosus</i>		<i>Diplococcus pneumoniae</i>	
von Lingelsheim . . .	2	see <i>Streptococcus pneumoniae</i>	

ERYSIPELOTHRIX

<i>Erysipelothrix monocytogenes</i> . . .	15	<i>Erysipelothrix rhusiopathiae</i> . . .	12
<i>Erysipelothrix muriseptica</i> . . .	3		

ESCHERICHIA see BACTERIUM

FLAVOBACTERIUM

<i>Flavobacterium androstendionicum</i>	2	<i>Flavobacterium orchitidis</i> . . .	1
<i>Flavobacterium carbonilicum</i> . . .	1	<i>Flavobacterium proteus</i> . . .	1
<i>Flavobacterium dehydrogenans</i> . . .	1	<i>Flavobacterium</i> spp. . . .	1

FUSIFORMIS

<i>Fusiformis necrophorus</i>	1
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HAEMOPHILUS

<i>Haemophilus aphrophilus</i>	6	untyped	20
<i>Haemophilus bronchisepticus</i>	6	<i>Haemophilus influenzae-murium</i>	2
<i>Haemophilus canis</i>	1	<i>Haemophilus influenzae-puteriorum</i>	1
<i>Haemophilus haemolyticus</i>	1	<i>Haemophilus influenzae-suis</i>	19
<i>Haemophilus influenzae</i>		<i>Haemophilus parainfluenzae</i>	4
type a	2	<i>Haemophilus parapertussis</i>	2
type b	4	<i>Haemophilus pertussis</i>	27
type c	2	<i>Haemophilus</i> spp.	
type d	1	fowl strain	1
type e	2	rat strains	3
type f	2		

KURTHIA see ZOPFIUS

LACTOBACILLUS

<i>Lactobacillus acidophilus</i>	5	<i>Lactobacillus fermentatus</i>	1
<i>Lactobacillus acidophil-aerogenes</i>	1	<i>Lactobacillus fructovorans</i>	1
<i>Lactobacillus acidophilus-</i> <i>odontolyticus</i>	2	<i>Lactobacillus gayonii</i>	2
<i>Lactobacillus arabinosus</i>		<i>Lactobacillus gracilis</i>	1
see <i>L. plantarum</i>		<i>Lactobacillus helveticus</i>	3
<i>Lactobacillus bifidus</i>	1	<i>Lactobacillus lactis</i>	1
<i>Lactobacillus brassicae-</i> <i>fermentatae</i>	1	<i>Lactobacillus lycopersici</i>	1
<i>Lactobacillus brevis</i>	1	<i>Lactobacillus mannitopeus</i>	1
<i>Lactobacillus bulgaricus</i>	2	<i>Lactobacillus pentoaceticus</i>	2
<i>Lactobacillus casei</i> see <i>L. helveticus</i>		<i>Lactobacillus plantarum</i>	6
<i>Lactobacillus delbrueckii</i>	4	<i>Lactobacillus rudensis</i>	1
		<i>Lactobacillus</i> spp. from silage	3

LEPTOSPIRA

<i>Leptospira biflexa</i>	1	<i>Leptospira icterohaemorrhagiae</i>	5
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LEUCONOSTOC

<i>Leuconostoc citrovorum</i>	1	<i>Leuconostoc mesenteroides</i>	7
<i>Leuconostoc dextranicum</i>	4	<i>Leuconostoc</i> spp. from water	2

LISTERELLA see ERYSIPELOTHRIX

MICROCOCCUS

<i>Micrococcus agilis</i> . . .	2	<i>Micrococcus luteus</i> . . .	2
<i>Micrococcus aurantiacus</i> . . .	1	<i>Micrococcus lysodeikticus</i> . . .	1
<i>Micrococcus candicans</i> . . .	1	<i>Micrococcus piltonensis</i> . . .	1
<i>Micrococcus caseolyticus</i> . . .	1	<i>Micrococcus rhodochrous</i> . . .	1
<i>Micrococcus conglomeratus</i> . . .	1	<i>Micrococcus roseus</i> . . .	1
<i>Micrococcus flavo-cyaneus</i> . . .	1	<i>Micrococcus sphaeroides</i> . . .	1
<i>Micrococcus flavus</i> . . .	1	<i>Micrococcus sulfureus</i> . . .	1
<i>Micrococcus freudenreichii</i> . . .	3	<i>Micrococcus tetragenus</i> . . .	3
<i>Micrococcus lactis-viscosus</i>		<i>Micrococcus ureae</i> . . .	1
see <i>M. freudenreichii</i>		<i>Micrococcus varians</i> . . .	3
<i>Micrococcus liquefaciens</i> . . .	1	<i>Micrococcus</i> spp. unidentified	5

MICROCYCLUS

<i>Microcyclus aquaticus</i> . . .	1
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MYCOBACTERIUM

<i>Mycobacterium album</i> . . .	1	<i>Mycobacterium stercoris</i> . . .	2
<i>Mycobacterium convolutum</i>		<i>Mycobacterium tuberculosis</i>	
see <i>Proactinomyces crystallophagus</i>		avian type . . .	12
<i>Mycobacterium enteritidis</i> . . .	1	bovine type . . .	16
<i>Mycobacterium lacticola</i> . . .	1	cold-blooded type . . .	7
<i>Mycobacterium luteum</i> . . .	1	human type . . .	15
<i>Mycobacterium marinum</i> . . .	1	murine type . . .	9
<i>Mycobacterium phlei</i> Moeller . . .	2	untyped . . .	7
<i>Mycobacterium phlei</i> Söhn . . .	1	<i>Mycobacterium</i> spp.	
<i>Mycobacterium platypoecilus</i> . . .	1	from lesions of leprosy . . .	16
<i>Mycobacterium rubrum</i>		from soil (Gray & Thornton)	
see <i>Proactinomyces rubropertinctus</i>		see <i>Proactinomyces</i>	
<i>Mycobacterium smegmatis</i> . . .	2	unidentified . . .	7

MYCOPLANA

<i>Mycoplasma bullata</i> . . .	1	<i>Mycoplasma dimorpha</i> . . .	1
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NEISSERIA

<i>Neisseria catarrhalis</i> . . .	11	<i>Neisseria gonorrhoeae</i> . . .	5
<i>Neisseria flavescens</i> . . .	2	<i>Neisseria haemolysans</i> . . .	1

<i>Neisseria meningitidis</i>	27	var. <i>flavus</i>	1
<i>Neisseria pharyngis</i>		var. <i>siccus</i>	1

NOCARDIA see ACTINOMYCES

PASTEURELLA

<i>Pasteurella pestis</i>	19	<i>Pasteurella septica</i>	40
<i>Pasteurella pseudotuberculosis</i>	21		

PFEIFFERELLA

<i>Pfeifferella mallei</i>	4	<i>Pfeifferella whitmorei</i>	7
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PHYTOMONAS see CORYNEBACTERIUM, PSEUDOMONAS and XANTHOMONAS

PROACTINOMYCES

<i>Proactinomyces actinomorphus</i>	1	<i>Proactinomyces globerulus</i>	1
<i>Proactinomyces agrestis</i>	4	<i>Proactinomyces minimus</i>	1
<i>Proactinomyces aquosus</i>	1	<i>Proactinomyces paraffinae</i>	1
<i>Proactinomyces coeliacus</i>	1	<i>Proactinomyces polychromogenes</i>	3
<i>Proactinomyces crystallophagus</i>	2	<i>Proactinomyces restrictus</i>	1
<i>Proactinomyces erythropolis</i>	1	<i>Proactinomyces rubropertinctus</i>	2
<i>Proactinomyces gardneri</i>	1	<i>Proactinomyces salmonicolor</i>	1

PROPIONIBACTERIUM

<i>Propionibacterium arabinosum</i>	1	<i>Propionibacterium rubrum</i>	1
<i>Propionibacterium freundenreichii</i>	1	<i>Propionibacterium shermanii</i>	1
<i>Propionibacterium jensenii</i>	1	<i>Propionibacterium technicum</i>	1
<i>Propionibacterium pentosaceum</i>	2	<i>Propionibacterium thoenii</i>	1
<i>Propionibacterium petersonii</i>	1	<i>Propionibacterium zeae</i>	1

PROTAMINOBACTER

<i>Protaminobacter albo-flavum</i>	4	<i>Protaminobacter rubrum</i>	1
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PROTEUS

<i>Proteus americanus</i>	4	<i>Proteus ammoniae</i>	1
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<i>Proteus anindologenes</i>			<i>Proteus</i> spp.		
see <i>P. vulgaris</i>			XK		2
<i>Proteus bombycis</i>	1		XL		2
<i>Proteus hydrophilus</i>	3		X2		2
<i>Proteus morganii</i>	34		X19		11
<i>Proteus rettgeri</i>	1		from rotten eggs.		4
<i>Proteus vulgaris</i>	19		miscellaneous		10

PSEUDOMONAS

<i>Pseudomonas aeruginosa</i>		<i>Pseudomonas oleovorans</i>	1
see <i>Ps. pyocyanea</i>		<i>Pseudomonas pelargoni</i>	1
<i>Pseudomonas angulata</i>	1	<i>Pseudomonas pictorum</i>	1
<i>Pseudomonas aptata</i>		<i>Pseudomonas pisi</i>	1
see <i>Ps. pyocyanea</i>		<i>Pseudomonas primulae</i>	1
<i>Pseudomonas atrofaciens</i>	1	<i>Pseudomonas proteamaculans</i>	1
<i>Pseudomonas barkeri</i>	1	<i>Pseudomonas prunicola</i>	
<i>Pseudomonas beticola</i>	1	see <i>Ps. syringae</i>	
<i>Pseudomonas cannae</i>	1	<i>Pseudomonas pyocyanea</i>	20
<i>Pseudomonas caryocyanea</i>	1	var. <i>erythrogenes</i>	3
<i>Pseudomonas cerasi</i>		<i>Pseudomonas rathonis</i>	1
see <i>Ps. syringae</i>		<i>Pseudomonas savastanoi</i>	2
<i>Pseudomonas chlororaphis</i>	1	var. <i>fraxini</i>	1
<i>Pseudomonas cruciviae</i>	1	<i>Pseudomonas solanacearum</i>	1
<i>Pseudomonas delphinii</i>	2	<i>Pseudomonas solaniolens</i>	1
<i>Pseudomonas desmolyticum</i>	2	<i>Pseudomonas syncyanea</i>	1
<i>Pseudomonas fluorescens</i>	5	<i>Pseudomonas syringae</i>	7
<i>Pseudomonas lachrymans</i>	2	<i>Pseudomonas tabaci</i>	4
<i>Pseudomonas marginalis</i>	2	<i>Pseudomonas tolaasii</i>	1
<i>Pseudomonas medicaginis</i>		<i>Pseudomonas trifoliorum</i>	
var. <i>phaseolicola</i>	2	see <i>Ps. syringae</i>	
<i>Pseudomonas mori</i>	2	<i>Pseudomonas viridiflava</i>	1
<i>Pseudomonas mors-prunorum</i>	1	<i>Pseudomonas viridilivida</i>	1
<i>Pseudomonas non-liquefaciens</i>	4	<i>Pseudomonas</i> spp. from eggs	8

RHIZOBIUM

<i>Rhizobium</i> spp.	16
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SALMONELLA

<i>Salmonella aberdeen</i>	2	<i>Salmonella adelaide</i>	5
<i>Salmonella abony</i>	2	<i>Salmonella aertrycke</i>	
<i>Salmonella abortus-bovis</i>	3	see <i>S. typhi-murium</i>	
<i>Salmonella abortus-equi</i>	6	<i>Salmonella altendorf</i>	1
<i>Salmonella abortus-ovis</i>	8	<i>Salmonella amager</i>	1

<i>Salmonella america</i>		<i>Salmonella enteritidis</i>	27
see <i>S. cholerae-suis</i>		var. blegdam see <i>S. blegdam</i>	
<i>Salmonella amersfoort</i> . . .	3	var. chaco	10
<i>Salmonella amherstiana</i> . . .	1	var. danysz	6
<i>Salmonella anatum</i>	6	var. dublin see <i>S. dublin</i>	
var. muenster see <i>S. muenster</i>		var. essen	2
var. nyborg see <i>S. nyborg</i>		var. moscow see <i>S. moscow</i>	
<i>Salmonella arechavaleta</i> . . .	4	var. rostock see <i>S. rostock</i>	
<i>Salmonella ballerup</i>	1	<i>Salmonella essen</i>	1
<i>Salmonella bareilly</i>	10	<i>Salmonella fayed</i>	2
<i>Salmonella berlin</i>		<i>Salmonella florida</i>	1
see <i>S. thompson</i> var. <i>berlin</i>		<i>Salmonella gallinarum</i> . . .	10
<i>Salmonella berta</i>	3	<i>Salmonella gaminara</i> . . .	1
<i>Salmonella binns</i>		<i>Salmonella gatuni</i>	1
see <i>S. typhi-murium</i> strain <i>binns</i>		<i>Salmonella georgia</i>	1
<i>Salmonella birkenhead</i>	1	<i>Salmonella give</i>	2
<i>Salmonella bispebjerg</i>	2	<i>Salmonella glostrup</i> . . .	1
<i>Salmonella blegdam</i>	6	<i>Salmonella goettengen</i> . . .	1
<i>Salmonella bonariensis</i>	1	<i>Salmonella grumpensis</i> . . .	1
<i>Salmonella bovis-morbificans</i> .	9	<i>Salmonella habana</i>	2
<i>Salmonella braenderup</i>	4	<i>Salmonella hartford</i>	2
<i>Salmonella brancaster</i>	1	<i>Salmonella heidelberg</i> . . .	2
<i>Salmonella brandenburg</i> . . .	1	<i>Salmonella heves</i>	1
<i>Salmonella bredeney</i>	3	<i>Salmonella hidalgo</i>	1
<i>Salmonella budapest</i>	2	<i>Salmonella hirschfeldii</i>	
<i>Salmonella californica</i>	1	see <i>S. paratyphi-C</i>	
<i>Salmonella cambridge</i>	1	<i>Salmonella hormaechei</i> . . .	1
<i>Salmonella canastel</i>	1	<i>Salmonella horsham</i>	1
<i>Salmonella cardiff</i>	1	<i>Salmonella hvittingfoss</i> . . .	2
<i>Salmonella carrau</i>	4	<i>Salmonella illinois</i>	2
<i>Salmonella cerro</i>	3	<i>Salmonella infantis</i>	1
<i>Salmonella champaign</i>	1	<i>Salmonella invernness</i> . . .	1
<i>Salmonella chandans</i>	1	<i>Salmonella iruma</i>	1
<i>Salmonella chester</i>	4	<i>Salmonella italiana</i>	1
<i>Salmonella chittagong</i>	2	<i>Salmonella javiana</i>	2
<i>Salmonella cholerae-suis</i> . . .	13	<i>Salmonella kaapstad</i>	1
var. <i>kunzensdorf</i>	26	<i>Salmonella kaposvar</i>	2
<i>Salmonella claibornei</i>	1	<i>Salmonella kentucky</i>	6
<i>Salmonella coeln</i>	1	<i>Salmonella kirkee</i>	2
<i>Salmonella concord</i>	1	<i>Salmonella kottbus</i>	2
<i>Salmonella cubana</i>	1	<i>Salmonella kunzensdorf</i>	
<i>Salmonella dar-es-salaam</i> . . .	3	see <i>S. cholerae-suis</i> var. <i>kunzensdorf</i>	
<i>Salmonella daytona</i>	1	<i>Salmonella lexington</i>	2
<i>Salmonella derby</i>	6	<i>Salmonella litchfield</i>	2
<i>Salmonella donna</i>	1	<i>Salmonella loma-linda</i> . . .	1
<i>Salmonella dublin</i>	12	<i>Salmonella lomita</i>	1
<i>Salmonella duesseldorf</i>	1	<i>Salmonella london</i>	3
<i>Salmonella durban</i>	1	<i>Salmonella luciana</i>	1
<i>Salmonella eastbourne</i>	4	<i>Salmonella macallen</i>	1
<i>Salmonella edinburg</i>	1	<i>Salmonella madelia</i>	2

<i>Salmonella manchester</i>	1	<i>Salmonella pueris</i>	1
<i>Salmonella manhattan</i>	2	<i>Salmonella pullorum</i>	14
<i>Salmonella marseille</i>	1	<i>Salmonella reading</i>	5
<i>Salmonella meleagridis</i>	4	var. kaapstad see <i>S. kaapstad</i>	
<i>Salmonella memphis</i>	1	<i>Salmonella richmond</i>	1
<i>Salmonella miami</i>	1	<i>Salmonella rio-grande</i>	1
<i>Salmonella mikawashima</i>	1	<i>Salmonella rostock</i>	3
<i>Salmonella minnesota</i>	3	<i>Salmonella rubislaw</i>	1
<i>Salmonella mission</i>	1	<i>Salmonella saint-paul</i>	2
var. isangi	1	<i>Salmonella salinatis</i>	1
<i>Salmonella mississippi</i>	1	<i>Salmonella san diego</i>	2
<i>Salmonella monschau</i>	1	<i>Salmonella sanguinarium</i>	
<i>Salmonella montevideo</i>	4	see <i>S. gallinarum</i>	
<i>Salmonella moscow</i>	2	<i>Salmonella sanjuan</i>	1
<i>Salmonella muenchen</i>	4	<i>Salmonella schleissheim</i>	2
<i>Salmonella muenster</i>	3	<i>Salmonella schwartzengrund</i>	1
<i>Salmonella napoli</i>	2	<i>Salmonella selandia</i>	1
<i>Salmonella narashino</i>	1	<i>Salmonella sendai</i>	2
<i>Salmonella new brunswick</i>	3	<i>Salmonella senegal</i>	1
<i>Salmonella newcastle</i>		<i>Salmonella senftenberg</i>	3
see <i>S. senftenberg</i> var. <i>newcastle</i>		var. <i>newcastle</i>	1
<i>Salmonella newington</i>	1	<i>Salmonella shangani</i>	2
var. <i>tim</i>	2	<i>Salmonella shoreditch</i>	1
<i>Salmonella newport</i>	8	<i>Salmonella simsbury</i>	1
var. <i>kottbus</i> see <i>S. kottbus</i>		<i>Salmonella singapore</i>	2
var. <i>puerto rico</i>	2	<i>Salmonella solt</i>	1
<i>Salmonella niloese</i>	1	<i>Salmonella stanley</i>	4
<i>Salmonella norwich</i>	2	<i>Salmonella stanleyville</i>	1
<i>Salmonella nyborg</i>	1	<i>Salmonella sundsvall</i>	1
<i>Salmonella onarimon</i>	2	<i>Salmonella szentes</i>	1
<i>Salmonella onderstepoort</i>	2	<i>Salmonella takaradi</i>	1
<i>Salmonella oranienburg</i>	8	<i>Salmonella taksony</i>	2
<i>Salmonella oregon</i>	1	<i>Salmonella tel-aviv</i>	1
<i>Salmonella orientalis</i>	1	<i>Salmonella tennessee</i>	4
<i>Salmonella orion</i>	1	<i>Salmonella texas</i>	1
<i>Salmonella oslo</i>	2	<i>Salmonella thompson</i>	4
<i>Salmonella panama</i>	3	var. <i>berlin</i>	3
<i>Salmonella papuana</i>	1	<i>Salmonella tim</i>	
<i>Salmonella paratyphi-A</i>	16	see <i>S. newington</i> var. <i>tim</i>	
var. <i>durazzo</i>	2	<i>Salmonella typhi</i>	61
<i>Salmonella paratyphi-B</i>	34	<i>Salmonella typhi-murium</i>	39
var. <i>java</i>	1	strain <i>binns</i>	4
var. <i>odense</i>	3	var. <i>copenhagen</i>	8
<i>Salmonella paratyphi-C</i>	14	<i>Salmonella typhi-suis</i>	3
<i>Salmonella pensacola</i>	1	var. <i>voldagsen</i>	2
<i>Salmonella pharr</i>	1	<i>Salmonella uganda</i>	2
<i>Salmonella pomona</i>	1	<i>Salmonella urbana</i>	1
<i>Salmonella poona</i>	2	<i>Salmonella vejle</i>	1
<i>Salmonella potsdam</i>	2	<i>Salmonella veneziana</i>	1
<i>Salmonella pretoria</i>	1	<i>Salmonella virchow</i>	2

<i>Salmonella virginia</i>	.	.	1	<i>Salmonella worthington</i>	.	.	4
<i>Salmonella waycross</i>	.	.	1	<i>Salmonella zagreb</i>	.	.	1
<i>Salmonella weltevreden</i>	.	.	1	<i>Salmonella zanzibar</i>	.	.	1
<i>Salmonella weslaco</i>	.	.	1	<i>Salmonella N 179</i>	.	.	1
<i>Salmonella wichita</i>	.	.	1	<i>Salmonella</i> spp. miscellaneous	.	.	4

OTHER BACTERIA WITH SALMONELLA ANTIGENS

<i>Aerobacter</i> sp.	.	.	1	3	.	.	.	.	1
<i>Salmonella coli</i>				4	.	.	.	.	2
1	.	.	3	5	.	.	.	.	1
2	.	.	2	11391	.	.	.	.	1

SARCINA

<i>Sarcina aurantiaca</i>	.	.	1	<i>Sarcina ureae</i>	.	.	1
<i>Sarcina gasoformans</i>	.	.	1	<i>Sarcina</i> sp. unidentified	.	.	1
<i>Sarcina lutea</i>	.	.	4				

SERRATIA see CHROMOBACTERIUM

Serratia marcescens

see *Chromobacterium prodigiosum*

SHIGELLA

<i>Shigella alkaescens</i>	.	.	13	type VI=Boyd's 88 group	.	.	1
<i>Shigella ambigua</i> see <i>Sh. schmitzii</i>				Andrewes & Inman X	.	.	4
<i>Shigella boydii</i>				Andrewes & Inman Y	.	.	4
type i (170)	.	.	2	Andrewes & Inman VZ	.	.	2
type ii (P288)	.	.	1	Andrewes & Inman WX	.	.	2
type iii (D1)	.	.	1	untyped strains	.	.	9
type iv (P274)	.	.	1	<i>Shigella madampensis</i>	.	.	3
type v (P143)	.	.	1	<i>Shigella minutissima</i>	.	.	1
type vi (D19)	.	.	1	<i>Shigella schmitzii</i>	.	.	6
<i>Shigella dispar</i>	.	.	8	<i>Shigella shigae</i>	.	.	26
<i>Shigella equirulis</i>				<i>Shigella sonnei</i>	.	.	18
see <i>Bacterium viscosum-equi</i>				<i>Shigella</i> spp.			
<i>Shigella etousae</i>	.	.	3	Gettings	.	.	1
<i>Shigella flexneri</i>				MacLennan's P.25 type	.	.	1
type I=V	.	.	4	Newcastle type (see also			
type II=W	.	.	11	<i>Sh. flexneri</i> type VI)	.	.	8
type III=Z	.	.	16	Sachs's types	.	.	9
type IV=Boyd's 103	.	.	9	unidentified	.	.	13
type V=Boyd's P119	.	.	3				

SPIRILLUM

<i>Spirillum rubrum</i>	.	.	.	3	<i>Spirillum virginianum</i>	.	.	.	1
<i>Spirillum undula</i>	.	.	.	1					

STAPHYLOCOCCUS

<i>Staphylococcus albus</i>					<i>Staphylococcus citreus</i>				
coagulase-positive see <i>Staph.</i>					coagulase-positive see <i>Staph.</i>				
<i>pyogenes</i>					<i>pyogenes</i>				
coagulase-negative	.	.	.	3	coagulase-negative	.	.	.	2
<i>Staphylococcus aurantiacus</i>	.	.	.	3	<i>Staphylococcus epidermidis</i>	.	.	.	1
<i>Staphylococcus aureus</i>					<i>Staphylococcus pyogenes</i>				
coagulase-positive see <i>Staph.</i>					Christie & Keogh's types	.	.	.	11
<i>pyogenes</i>					" g " variant	.	.	.	1
coagulase-negative see <i>Staph.</i>	.	.	.		untyped	.	.	.	25
<i>aurantiacus</i>									

STREPTOBACILLUS

<i>Streptobacillus moniliformis</i>	
see <i>Actinomyces muris</i>	

STREPTOCOCCUS

LANCEFIELD'S GROUPS

GROUP A (<i>Str. pyogenes</i>)					GROUP G				
Griffith's types	.	.	.	31	Griffith's type 16	.	.	.	1
untyped	.	.	.	7	human strains	.	.	.	2
GROUP B (<i>Str. agalactiae</i>)					animal strains	.	.	.	7
Stableforth's types	.	.	.	8	GROUP H	.	.	.	1
untyped	.	.	.	9	GROUP K	.	.	.	1
GROUP C					GROUP L				
Griffith's types 7, 20, and 21	.	.	.	3	human strains	.	.	.	4
animal strains	.	.	.	9	animal strains	.	.	.	19
GROUP D (<i>Str. faecalis</i>)	.	.	.	4	GROUP M				13
GROUP E	.	.	.	3	GROUP N				1
GROUP F	.	.	.	3					

NAMED SPECIES

<i>Streptococcus acidilactici</i>					<i>Streptococcus apis</i>	.	.	.	1
see <i>Str. lactis</i>					<i>Streptococcus asalignus</i>	.	.	.	1
<i>Streptococcus agalactiae</i>					<i>Streptococcus bovis</i>	.	.	.	1
see Lancefield group B					<i>Streptococcus brevis</i>	.	.	.	1

<i>Streptococcus cardioarthritidis</i> .	1	<i>Streptococcus mucosus</i> .	2
<i>Streptococcus citrovorus</i>		<i>Streptococcus mutans</i> .	3
see <i>Leuconostoc citrovorum</i>		<i>Streptococcus pneumoniae</i>	
<i>Streptococcus cremoris</i> .	1	types I to XXXII .	72
<i>Streptococcus damnosus</i>		<i>Streptococcus pyogenes</i>	
var. <i>viscosus</i> .	1	see Lancefield group A	
<i>Streptococcus dysgalactiae</i> .	5	<i>Streptococcus rheumaticus</i> .	2
<i>Streptococcus epidemicus</i> .	1	<i>Streptococcus salivarius</i> .	2
<i>Streptococcus equi</i> .	1	<i>Streptococcus scarlatinae</i> .	5
<i>Streptococcus erysipelatis</i> .	4	<i>Streptococcus subacidus</i> .	1
<i>Streptococcus faecalis</i> .	28	<i>Streptococcus thermophilus</i> .	1
<i>Streptococcus glycerinaceus</i> .	1	<i>Streptococcus uberis</i> .	4
<i>Streptococcus haemolyticus</i>		<i>Streptococcus viridans</i> .	5
see Lancefield groups A-N		<i>Streptococcus</i> spp.	
<i>Streptococcus ignavus</i> .	1	anaerobic .	10
<i>Streptococcus infrequens</i> .	2	from animals .	9
<i>Streptococcus lactis</i> .	6	from humans .	29
<i>Streptococcus liquefaciens</i> .	3	from silage .	2
<i>Streptococcus mastitidis</i> .	8		

STREPTOTHRIX see ACTINOMYCES

TETRACOCOCCUS

<i>Tetracoccus casei</i> .	1	<i>Tetracoccus liquefaciens</i> .	1
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THERMOBACTERIUM see LACTOBACILLUS

THIOBACILLUS

<i>Thiobacillus thiooxidans</i> .	1	<i>Thiobacillus thioparus</i> .	1
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TYROTHRIX see BACILLUS

VIBRIO

<i>Vibrio cholerae</i>		<i>Vibrio percolans</i> .	1
subgroup I .	16	<i>Vibrio tyrogenus</i> .	1
<i>Vibrio cyclosites</i> .	1	<i>Vibrio</i> spp.	
<i>Vibrio el Tor</i> .	9	subgroup III .	1
<i>Vibrio fetus</i> .	3	„ IV .	1
<i>Vibrio metchnikovii</i> .	1	„ V see <i>Vibrio el Tor</i>	
<i>Vibrio neocistes</i> .	1	„ VI .	1
<i>Vibrio paracholerae</i> .	1		

XANTHOMONAS

<i>Xanthomonas begoniae</i> . . .	7	<i>Xanthomonas phaseoli</i> . . .	5
<i>Xanthomonas campestris</i> . . .	7	<i>Xanthomonas ricinicola</i> . . .	1
<i>Xanthomonas hyacinthi</i> . . .	4	<i>Xanthomonas stewartii</i> . . .	1
<i>Xanthomonas juglandis</i> . . .	2	<i>Xanthomonas vasculorum</i> . . .	4
<i>Xanthomonas malvacearum</i> . . .	8	<i>Xanthomonas vitians</i> . . .	1

ZOPFIUS

<i>Zopfius zenkeri</i> . . .	5
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